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(30)Priority

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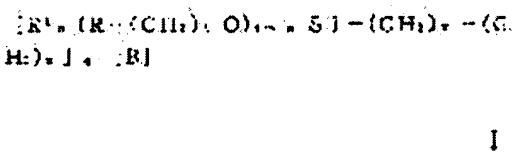
(54) GRANULE HAVING SILICATE FILLER MODIFIED WITH ORGANOSILICON COMPOUND AS BASE, GENERATING LOW DUST AND HAVING GOOD DISPERSING ABILITY, ITS PRODUCTION AND RUBBER MIXTURE CONTAINING THE SAME

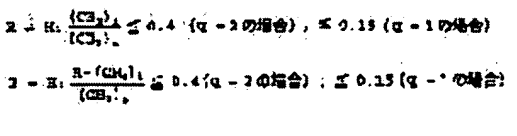
(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the granules having high preservation stability and a low dust content, excellent in compatibility with rubber mixture by using a precipitated silicate filler modified with an organic silicon compound as a base.

SOLUTION: The objective granules are produced by precipitation and using silicate filler modified with an organic silicon compound expressed by formula I [B is SCN, SH, Cl or NH2 when (q) is 2, or Sx when (q)=2; R and R1 are each a 1-4C alkyl; R is an additional H; (n) is 0, 1 or 2; (y) is 0-19; (z) and (i) are each 1; (x) is 2-8 and the reaction rate of an alkoxy group is given by an integration ratio of signals obtained by using a 13C-NMR spectrometer and expressed by formula II] as a base. This production of the subject granules is to prepare an aqueous suspension of the silicate filler having pH1-5, spray or inject from a nozzle the suspension and one or more of compounds of formula I with air into a fluidized bed, take out wet granules modified with the organic silicon compound and having a predetermined granule size, dry the granules, separate a fine part of the



I



II

granules, feed back the granules into the fluidized bed and adjust to pH6-7.5.

LEGAL STATUS

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